Abstract

In a data processing system having a processor unit, a working memory and a media unit, an input unit for inputting data and an output unit for outputting data as well as a network control unit and a bi-directional interface for networking the data processing system with a plurality of interconnected data processing systems, as well as an access filter for defining access rights for data stored on the media unit, one obtains easy changing of the protection code of the access filter in that the access filter is provided in an input-output controller (IO controller) of the data processing system between the working memory, on the one hand, and the media unit and the network control unit, on the other hand.

(FIG. 1)

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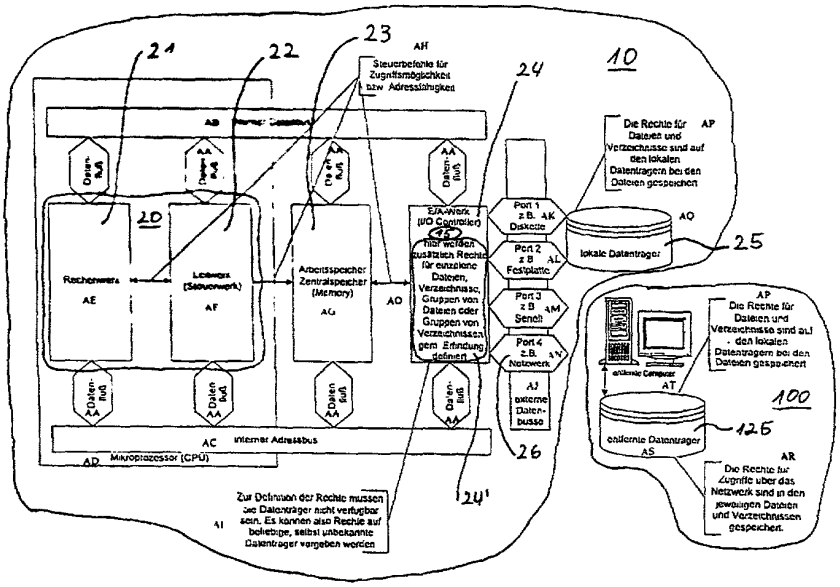
(54) Title: METHOD AND DEVICE FOR CHANGEABLY DEFINING ACCESS RIGHTS TO COMPUTER FILES

(54) Bezeichnung: VERFAHREN UND VORRICHTUNG ZUM ÄNDERBAREN DEFINIEREN VON ZUGRIFFSRECHTEN AUF COMPUTERDATEIEN

(57) Abstract: The invention relates to a data processing system comprising a processor unit, a main memory and a data carrier unit, an inputting unit for inputting data and an outputting unit for outputting data as well as a network control unit and a bi-directional interface. The data processing system can be networked to a plurality of data processing systems by means of said interface, whereby said data processing systems are connected to one another. The inventive data processing system also comprises an access filter for defining access rights to data which is stored in the data carrier unit. The aim of the invention is to be able to slightly change the security code of the access filter. The access filter is provided in an input/output mechanism (IO



AA ... DATA FLOW
AB ... INTERNAL DATA BUS
AC ... INTERNAL ADDRESS BUS
AD ... MICROPROCESSOR (CPU)
AE ... ARITHMETIC UNIT
AF ... CONTROL UNIT
AG ... MAIN MEMORY
CENTRAL STORAGE
(MEMORY)
AH .. CONTROL INSTRUCTION FOR ACCESIBILITY OR ADDRESSABILITY
AI ... THE DATA CARRIERS ARE NOT REQUIRED FOR DEFINING RESPECTIVE RIGHTS.
RIGHTS CAN ALSO BE ALLOCATED TO ANY, EVEN UNKNOWN DATA CARRIERS
AJ ... EXTERNAL DATA BUSES
AK ... PORT 1
E.G.
FLOPPY DISK
AL .... PORT 2
E.G.
HARD DISK
AO ... I/O CONTROLLER
HERE SUPPLEMENTARY RIGHTS FOR INDIVIDUAL DATA FILES, DIRECTORIES, ARRAYS OF DATA FILES OR ARRAYS OR DIRECTORIES ACCORDING TO THE INVENTION ARE DEFINED
AP ... THE RIGHTS FOR DATA FILES AND DIRECTORIES ARE SAVED ON THE LOCAL DATA CARRIERS UNDER THE DATA FILES
AQ ... LOCAL DATA CARRIERS
AR ... THE RIGHTS FOR ACCESS VIA THE NETWORK ARE SAVED IN THE RESPECTIVE DATA FILES AND DIRECTORIES
AS ... REMOTE DATA CARRIERS
AT ... REMOTE COMPUTERS
AM .... PORT 3
E.G
SERIAL
AN ... PORT 4
E.G.
NETWORK

[Fortsetzung auf der nächsten Seite]

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